

## Show Your Understanding

Name\_\_\_\_\_ Block\_\_\_\_\_

Think back to the shower question and the food coloring lab. Read the following stories and then make an annotated drawing to explain your answer to the questions.

1.) Last weekend I had a dinner party for ten friends. I decided to make two large glass pans of lasagna. When I went to wash the dishes after the party, I noticed that the sauce and cheese from the lasagna had dried and hardened on the pans. I did NOT want to have to scrub them, so I decided to let them soak to loosen up the cheese and sauce. I have a double sink, so I placed one pan in each side. On one side, I filled the sink with soap and steaming hot water. In the other sink, I used cold water and soap. I let both pans soak for 30 minutes.

At the end of thirty minutes, which pan do you think will be easier to clean? Why?

Things to include/consider:

energy level  
distance between molecules  
movement of molecules  
states of matter in which water can exist

2.) When I filled the sink with hot water, I noticed that the window got fogged up. When I touched it, my hand got wet. How did this happen?